

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 03/02505

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E01H1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 422 681 A (LAROCHE SYLVAIN) 27 December 1983 (1983-12-27)	1, 2, 4
A	the whole document	21-24
X	US 3 740 086 A (ROSSITTO C) 19 June 1973 (1973-06-19)	1
A	the whole document	2, 4, 6, 8, 21-24
A	DE 36 06 468 A (BAUER ANTON) 3 September 1987 (1987-09-03)	1, 10, 21-24
A	US 3 680 504 A (SEEBALD FRANCIS W) 1 August 1972 (1972-08-01)	1
	the whole document	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"Z" document member of the same patent family

Date of the actual completion of the international search

11 September 2003

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17/09/2003

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4422681	A	27-12-1983	CA 1168676 A1	05-06-1984
US 3740086	A	19-06-1973	NONE	
DE 3606468	A	03-09-1987	DE 3606468 A1	03-09-1987
US 3680504	A	01-08-1972	DE 2052682 A1	06-05-1971
			US 3817194 A	18-06-1974